

NATIONAL MOTOR LIFEBOAT SCHOOL 47' MLB COXSWAIN TEST QUESTIONS

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The following questions are designed to help Coast Guard personnel increase their knowledge about the 47' MLB and small boat operations. These questions will also provide useable examples for RFO supervisors or other test writers to use. THIS IS NOT the test you will see on the Stan visit. These questions are for practice only. You should study the below references in preparation for the Standardization Team test. Although FY 03 test mirrors the FY 02 Stan Test it has none of the same questions on it.

THE FOLLOWING REFERENCES ARE USED ON FY02 TESTS AS WELL AS NEW FY03 TESTS

- Boat Crew Seamanship Manual, COMDTINST M16114.5(series)
- Coxswain Qualification Guide, COMDTINST M16114.11(series)
- 47FT MLB Operator's Handbook, COMDTINST M16114.25(series)
- Navigation Rules, COMDTINST M16672.2(series)
- Rescue and Survival Systems Manual, COMDTINST M10470.10(series)
- Raytheon NAV398 GPS/LORAN Operation Manual
- Navigation Standards COMDTINST M3530.2(series)
- Heavy Weather Coxswain Qualification guide, COMDTINST M16114.26(series)
- Dutton's Navigation And Piloting

REVISED: 08 MAR 03

BOAT SPECIFICATIONS

1. What is the draft of the 47' MLB propeller shaft strut extensions?
 - a. 3' 6"
 - b. 4' 6"
 - c. 4' 8"
 - d. 5' 6"
2. The forward compartment is ventilated by _____.
 - a. 2" check vent
 - b. Vent fan & ducting
 - c. Dorade vent
 - d. Opening the AUX QAWTD
3. The engine room fire alarm system will be activated if the temperature in the engine room exceeds _____ degrees.
 - a. 180
 - b. 190
 - c. 225
 - d. 205
4. The ERIM takes signals from the CISM, and relays it to the engines and reduction gears.
 - a. True
 - b. False
5. The engines are rated for _____ horsepower at 2100 RPM.
 - a. 400
 - b. 415
 - c. 425
 - d. 435
6. Normal operating lube oil pressure at cruising is _____ to _____ psi.
 - a. 50 – 79
 - b. 49 – 70
 - c. 45 – 75
 - d. 40 – 70
7. The 47' MLB side shell is _____ inch thick.
 - a. $\frac{1}{2}$
 - b. $\frac{1}{4}$
 - c. $\frac{3}{8}$
 - d. $\frac{5}{16}$
8. The deepest draft of the 47' MLB is the shaft strut extensions, which lie between which frames?
 - a. 1 and 2
 - b. 2 and 3
 - c. Transom and 1
 - d. 3 and 4

9. How many total frames are there on the 47' MLB?
- a. 15
 - b. 16
 - c. 17
 - d. 18
10. Normal operating jacket water temperature for the 47' MLB is _____ to _____ degrees.
- a. 160 – 170
 - b. 165 – 180
 - c. 150 – 185
 - d. 160 – 205
11. You have a SAR call where you must pass under a bridge with 20 feet of clearance to reach the scene. Can you respond?
- a. Yes
 - b. No
12. When set in the automatic mode, the bilge pump will require approximately _____ inches of water in one of the bilges to activate it.
- a. 5
 - b. 10
 - c. 15
 - d. None of the above
13. The reduction gear is coupled to the engine by a _____ .
- a. Propeller shaft
 - b. Stub shaft
 - c. Cardan shaft
 - d. Drive saver
14. The EWRS system is designed as an emergency exit for crewmembers trapped in the Enclosed Bridge.
- a. True
 - b. False
15. When the engine room fire suppression system is activated, the first pressure switch will perform which functions?
- a. Siren, pre-discharge warning strobe light, engine stop solenoids
 - b. Siren, red "CO2 Pre-discharge" light located on the CO2 system indicator in survivors' comp, engine stop solenoids
 - c. Pre-discharge warning strobe light, red "CO2 Pre-discharge" light located on the CO2 system indicator in survivors' comp, engine stop solenoids
 - d. None of the above

MLB OPERATIONS & MISSIONS

16. _____ is the rapid, extreme increase in tension on the towline, which transfers through the tow rig and fittings to both vessels.
- a. Veering
 - b. Bollard pull
 - c. Shockloading
 - d. Yawing
17. The CG-P5 has a _____ gallon per minute capacity at a 10-foot suction lift.
- a. 120
 - b. 200
 - c. 150
 - d. 210
18. Increasing towline scope is a good way to correct for a boat, which is not in step.
- a. True
 - b. False
19. _____ is the movement of a search object through the water.
- a. Drift
 - b. Leeway
 - c. Set
 - d. Sea current
20. When approaching a boat fire, you should do so from where?
- a. Downwind
 - b. Whichever way is the fastest
 - c. Up current
 - d. Upwind
21. For initial search action the SRU shall conduct a VS or SS search using a _____ nautical mile radius while the SMC develops a search plan.
- a. 2
 - b. 4
 - c. 6
 - d. 8
22. Hole or crack below the water line in a water tight structure.
- a. Disabling
 - b. Restrictive

Questions 11 to 15 are in accordance with the 47' MLB Operators Handbook

23. Towline less than 100' of required length.
- a. Disabling
 - b. Restrictive
24. Excessive shaft or engine vibration.
- a. Disabling
 - b. Restrictive

NAVIGATION RULES

33. A power driven vessel engaged in fishing shall, at not more than 2 minutes, sound which signal?
- | | |
|------------------------|------------------------|
| a. 1 prolonged 1 short | c. 2 short |
| b. 2 prolonged 2 short | d. 1 prolonged 2 short |
32. A vessel aground shall exhibit, if practicable, where they can best be seen _____ balls in a vertical line.
- | | |
|------|------------------------------|
| a. 1 | c. 3 |
| b. 2 | d. No balls, just a cylinder |
33. A sailing vessel underway may, in addition to the sidelights and stern light, exhibit at or near the top of the mast, two _____ lights in a vertical line. The upper being a _____ light and the lower being a _____ light.
- | | |
|-------------------------|--------------------------|
| a. Masthead, red, green | c. All-round, green, red |
| b. Masthead, green, red | d. All-round, red, green |
34. The term “vessel not under command” means:
- | | |
|--|--|
| a. A vessel, which is unable to maneuver as required by the rules of the road. | c. A vessel, which is being operated by the autopilot. |
| b. A vessel, which has a break-in at the helm. | d. None of the above. |
35. A vessel less than 50 meters towing astern, with its length of tow exceeding 200 meters, would show _____ masthead lights in a vertical line.
- | | |
|------|------|
| a. 3 | c. 1 |
| b. 2 | d. 4 |
36. According to the inland rules, a vessel connected in a composite unit shall, in addition to its prescribed lights, show an additional towing light on the stern.
- | | |
|---------|----------|
| a. True | b. False |
|---------|----------|

- a. 200
 - b. 500
 - c. 2000
 - d. 1000
43. After pressing the event button on the NAV 398 GPS, you can assign a waypoint number to the stored position.
- a. True
 - b. False
44. You have determined your SOG at 10 KTS. How long will it take to travel 7.5 nautical miles?
- a. 39 min
 - b. 55 min
 - c. 45 min
 - d. 80 min
45. If you travel for 1 hour and 20 minutes at a speed of 12 KTS, how far will you have gone?
- a. 14 nm
 - b. 15 nm
 - c. 16 nm
 - d. None of the above
46. You are traveling on a course of 175 degrees compass when your lookout spots an object at 330 degrees relative. What would your plotted magnetic course to that object be if you have 8 degrees east variation and 2 degrees east deviation?
- a. 147
 - b. 143
 - c. 155
 - d. 15
47. What is the correct variation and deviation for the following equation?
- $263^{\circ} T \quad ?? \quad 279^{\circ} M \quad ?? \quad 276^{\circ} C$
- a. $16^{\circ} W, 3^{\circ} W$
 - b. $16^{\circ} E, 3^{\circ} E$
 - c. $16^{\circ} W, 3^{\circ} E$
 - d. $16^{\circ} E, 3^{\circ} W$
48. The ANSP/69 radar should be tuned at a range of _____ nautical miles or higher.
- a. 0.75
 - b. 0.5
 - c. 1.5
 - d. 3
49. What is the 6-minute rule?
- a. The distance a vessel travels in miles in six minutes is equal to the speed of the vessel divided by 10.

- b. The distance a vessel travels in miles in six minutes is equal to the speed of the vessel multiplied by 100.
 - c. The distance a vessel travels in yards in six minutes is equal to the speed of the vessel divided by 10.
 - d. The distance a vessel travels in yards in six minutes is equal to the speed of the vessel multiplied by 100.
50. Convert the position $55^{\circ} 16.55' N$, $124^{\circ} 17.84' W$ to minutes and seconds format.
- a. $55^{\circ} 16' 55'' N$, $124^{\circ} 17' 84'' W$
 - b. $55^{\circ} 16' 33'' N$, $124^{\circ} 17' 50'' W$
 - c. $55^{\circ} 16' 91'' N$, $124^{\circ} 17' 14'' W$
 - d. None of the above
51. Your small boat departs buoy 2 at 2319. At 2325 you use the radar to determine that buoy 2 is 1200 yards off your stern. What is your SOG?
- a. 12 kts
 - b. 7 kts
 - c. 14 kts
 - d. 6 kts
52. You travel 12.5 NM at 6 knots, how long will this take?
- a. 1 hr 20 min
 - b. 1 hr 25 min
 - c. 2 hr 5 min
 - d. 2 hr 8 min
53. Which statement concerning the operation of radar in fog is **true**?
- a. Small wooden boats may not show up on radar.
 - b. Radar ranges are less accurate in fog.
 - c. Navigation buoys will always show up on radar.
 - d. A sandy beach will show up clearer on radar than a rocky cliff.
54. Convert the position $46^{\circ} 26' 42'' N$, $124^{\circ} 18' 16'' W$ to tenths of minutes format.
- a. $46^{\circ} 26.42' N$, $124^{\circ} 18.16' W$
 - b. $46^{\circ} 26.70' N$, $124^{\circ} 18.27' W$
 - c. $46^{\circ} 26.25' N$, $124^{\circ} 18.96' W$
 - d. None of the above
55. Dead reckoning is the process of determining a boat's approximate position by applying its speed, time, set, drift, and course from its last known position.
- a. True
 - b. False

SURVIVAL / FIRST AID

56. Which of the following is not a sign of shock?

- a. High blood pressure
 - b. Shallow & rapid breathing
 - c. Weak & rapid pulse
 - d. Dilated pupils
57. Control of a severe hemorrhage is always urgent since arterial bleeding can cause death in a short time.
- a. True
 - b. False
58. One of your boat crewmembers receives a 1” laceration on his arm. What is the best way to treat his injury?
- a. Apply a tourniquet to control bleeding.
 - b. Apply a bandage and direct pressure to the wound.
 - c. Elevate the members arm above their heart.
 - d. Both b and c
59. When securing a person into the stokes litter, the _____ strap should be routed over the patient’s arms and torso.
- a. Blue
 - b. Gray
 - c. Red
 - d. Black
60. How should a properly adjusted boat crew safety belt be worn?
- a. Fit snugly, low around the hips.
 - b. Loosely around the hips.
 - c. Fit snugly around the buttocks.
 - d. None of the above.
61. It is a hot summer day and you have been working outside. You think a co-worker may be suffering from heat exhaustion because he is sweating profusely and looks pale. Your care for this person should include which of the following?
- a. Having the person take a salt tablet.
 - b. Rapidly transporting the person to a medical facility.
 - c. Removing the person from the heat and giving him cool water if he is conscious.
 - d. Vigorously massaging the person.
62. The commandant **authorizes** the wearing of comfort neck or o-ring devices with the dry suit.
- a. True
 - b. False

63. What are the three types of bleeding?
- a. Arterial, Coronary, Aortal
 - b. Distal, Arterial, Proximal
 - c. Arterial, Venous, Capillary
 - d. Radial, Femoral, Arterial
64. On a clear dark night a PML can be seen for approximately _____ mile(s).
- a. 1
 - b. 2
 - c. 3
 - d. 4
65. When the water temperature is below 60 degrees Fahrenheit, a person's first layer of protection must be what?
- a. What ever keeps you warm
 - b. Work uniform
 - c. Cotton long underwear
 - d. Polypropylene underwear
66. If you fall overboard, and are in the water by yourself, which survival position should you assume to reduce body heat lose?
- a. Prone
 - b. HELP
 - c. YELP
 - d. Huddle
67. The unit commander can waive the requirement for wearing a hypothermia protective device.
- a. True
 - b. False
68. Which of the following would you **not** do to treat someone with hypothermia?
- a. Remove all wet clothing
 - b. Vigorously massage cold limbs
 - c. Handle the person gently
 - d. Wrap them in a blanket
69. While underway, when are you required to wear the boat crew survival vest?
- a. As the coxswain directs
 - b. Only in extreme conditions
 - c. Only at night
 - d. At all times
70. Dry suits are to be worn by boat crews on _____ when the water temperature and the air temperature is below 50 degrees.
- a. Only on Rigid Hull Inflatables

- b. Only on open cockpit boats
- c. All boats
- d. Only on Motor Life Boats operating in surf